International Journal of Mass Spectrometry and Ion Processes, 123 (1993) 253
Elsevier Science Publishers B.V., Amsterdam

AUTHOR INDEX

Azami, K., 217

Barlo Daya, D.D.N., 69
Bell, E.W., 187
Beu, S.C., 49
Bierbaum, V.M., 171
Bonham, R.A., 97
Brinkmalm, G., 69
Bruce, M.R., 97

Castleman, A.W., Jr., 225
Chang, T.-L., 77
Chen, B., 225
Clifford, E.P., 171
Cooks, R.G., 85

Dang, T.T., 171
De Bièvre, P., 1, 149
Demirev, P., 69
DePuy, C.H., 171
Djurić, N., 187
Dunbar, R.C., 11
Dunn, G.H., 187
de Koning, L.J., 11
de Koster, C.G., 59

Eberhardt, P., 19
Ehbrecht, M., R1
Ellison, G.B., 171

Fang, L., 233
Fenyö, D., 69

Gormally, J., 125
Gotz, A., 1
Grosshans, P.B., 41

Håkansson, P., 69
Hamakawa, S., 217
Harms, A.C., 225
Hendrickson, C.L., 49
Heumann, K.G., 139
Hofstadler, S.A., 49
Houle, F.A., 243
Huisken, F., R1

Johnsen, R., 193
Julian, R.J., 85

Keesee, R.G., 225
Kim, M.S., 133
Kondow, T., 217
Konenkov, N.V., 101

Lamberty, A., 1
Laude, Jr., D.A., 49
Limbach, P.A., 41
Liu, W.G., 117

Marshall, A.G., 41
Meier, R., 19
Michalak, L., 107
Miller, T.M., 205
Milnes, J., 125
Morris, R.A., 205
Motell, E.L., 171

Nagata, T., 217
Nibbering, N.M.M., 11

Paulson, J.F., 205

Qi, H.P., 117
Qian, Q.-Y., 77

Reiser, H.-P., 85
Rogers, K., 125

Shima, M., 29
Shinohara, H., R7
Stemmler, M., R1
Stevens Miller, A.E., 205
Sundqvist, B.U.R., 69

Takayama, M., R7
Taylor, P.D.P., 149
Torigoye, N., 29
Tosh, R.E., 193
Travers, M.J., 171

Van Doren, J.M., 205
Viggiano, A.A., 205
van de Guchte, W.J., 7, 11
van der Hart, W.J., 7, 11
van Houte, J.J., 59
van Thuijl, J., 59

Walczyk, T., 139
Wang, J., 77
Williams, E.R., 233

Xiao, Y.K., 117

Yamamoto, Y., 217
Yim, Y.H., 133

Zare, R.N., 233
Zhang, C.G., 117
Zhao, M.-T., 77

International Journal of Mass Spectrometry and Ion Processes, 123 (1993) 255–259
Elsevier Science Publishers B.V., Amsterdam

SUBJECT INDEX

Ab initio calculations
Experimental and computational studies of deuterated ethanols: gas-phase acidities, electron affinities and bond dissociation energies 171
Absolute cross sections
Crossed-beams measurements of absolute cross sections for electron impact ionization of S^+ 187
Absolute isotopic composition
The isotopic composition and atomic weight of titanium 29
Acceptance
Influence of fringing fields on the acceptance of a quadrupole mass filter in the separation mode of the intermediate stability region 101
Antimony
The isotopic abundance of antimony 77
Aromatic substitution
Gas phase substitution reactions by radical cations. Part 2. Reaction of the C–C ring-opened oxirane radical cation with benzonitrile and benzoic acid 59
Arsenic chloride
Electron impact fragmentation of gases by molecular beam mass spectrometry. Application to $AsCl_3$ and a $GaCl_3/Ga_2Cl_6$ mixture 243
Atomic weight
Iridium isotope ratio measurements by negative thermal ionization mass spectrometry and atomic weight of iridium 139
The isotope abundance of antimony 77
The isotopic composition and atomic weight of titanium 29

Beam flux distribution
Calculation of the beam flux distribution from an effusion hole in the ion source of the mass spectrometer 107
Bond dissociation energy
Experimental and computational studies of deuterated ethanols: gas-phase acidities, electron affinities and bond dissociation energies 171
Bromine
A new method for high precision isotopic measurement of bromine by thermal ionization mass spectrometry 117

Cadmium
CBNM certification of Cd in polyethylene by isotope dilution mass spectrometry 1
Caffeine
Laser desorption/laser ionization mass spectra of some methylated xanthines and the laser desorption of caffeine and theophylline from thin layer chromatography plates 125
CBNM certification
CBNM certification of Cd in polyethylene by isotope dilution mass spectrometry 1
CF_4
On the partial ionization cross-sections for CF_4 by use of the pulsed-electron-beam time-of-flight method 97
Charge exchange
Isomerization of $C_6H_6^{\cdot+}$ ions from 1,3-hexadien-5-yne during charge exchange ionization at low kinetic energy as studied by photodissociation in an ion cyclotron resonance spectrometer 7
Charge exchange ionization
Formation of long-lived benzene ions during charge exchange ionization of 1,5-hexadiyne in an ion cyclotron resonance spectrometer 11
Chemical ionization
Gas phase substitution reactions by radical cations. Part 2. Reaction of the C–C ring-opened oxirane radical cation with benzonitrile and benzoic acid 59
Cholesterol
On molecular ion formation by hydride abstraction in plasma desorption mass spectrometry 69
Cluster fragmentation
Enhanced production of unprotonated hydrogen-bonded cluster ions R1
Cluster ions
Enhanced production of unprotonated hydrogen-bonded cluster ions R1

Collision complex
Formation of long-lived benzene ions during charge exchange ionization of 1,5-hexadiyne in an ion cyclotron resonance spectrometer 11
Isomerization of $C_6H_6^{\cdot+}$ ions from 1,3-hexadien-5-yne during charge exchange ionization at low kinetic energy as studied by photodissociation in an ion cyclotron resonance spectrometer 7
Crossed-beams measurements
Crossed-beams measurements of absolute cross sections for electron impact ionization of S^+ 187

1-Decanethiol
A Rydberg-atom ionization source for negative ion mass spectrometry 217
Deuterated ethanols
Experimental and computational studies of deuterated ethanols: gas-phase acidities, electron affinities and bond dissociation energies 171
Deuterium isotope effects
Experimental and computational studies of deuterated ethanols: gas-phase acidities, electron affinities and bond dissociation energies 171
Double charge transfer
Single and double charge transfer of He^{2+} ions with molecules at near-thermal energies 193

Effusion hole
Calculation of the beam flux distribution from an effusion hole in the ion source of the mass spectrometer 107
Electron affinity
Experimental and computational studies of deuterated ethanols: gas-phase acidities, electron affinities and bond dissociation energies 171
Electron impact
Crossed-beams measurements of absolute cross sections for electron impact ionization of S^+ 187
On the partial ionization cross-sections for CF_4 by use of the pulsed-electron-beam time-of-flight method 97
Electrospray ionization
Initiation of coherent magnetron motion following ion injection into a Fourier transform ion cyclotron resonance trapped ion cell 49

Fe^-
Reactions of Fe^- with acids: gas-phase acidity and bond energy of FeH 205
FeH
Reactions of Fe^- with acids: gas-phase acidity and bond energy of FeH 205
Fragmentation
Ionization and fragmentation of C_{60} by gas-phase fast atom bombardment using He, Ar and Xe beams R7
Electron impact fragmentation of gases by molecular beam mass spectrometry. Application to $AsCl_3$ and a $GaCl_3/Ga_2Cl_6$ mixture 243
Fringing field
Influence of fringing fields on the acceptance of a quadrupole mass filter in the separation mode of the intermediate stability region 101
FT-ICR
Formation of long-lived benzene ions during charge exchange ionization of 1,5-hexadiyne in an ion cyclotron resonance spectrometer 11
Harmonic enhancement of a detected ion cyclotron resonance signal by use of segmented detection electrodes 41
Initiation of coherent magnetron motion following ion injection into a Fourier transform ion cyclotron resonance trapped ion cell 49
Isomerization of $C_6H_6^{\cdot+}$ ions from 1,3-hexadien-5-yne during charge exchange ionization at low kinetic energy as studied by photodissociation in an ion cyclotron resonance spectrometer 7
Fullerene C_{60}
Ionization and fragmentation of C_{60} by gas-phase fast atom bombardment using He, Ar and Xe beams R7

Gallium chloride
Electron impact fragmentation of gases by molecular beam mass spectrometry. Application to $AsCl_3$ and $GaCl_3/Ga_2Cl_6$ mixture 243
Gas phase acidity
Experimental and computational studies of deuterated ethanols: gas-phase acidities, electron affinities and bond dissociation energies 171
Reactions of Fe^- with acids: gas-phase acidity and bond energy of FeH 205

Gas phase FAB
Ionization and fragmentation of C_{60} by gas-phase fast atom bombardment using He, Ar and Xe beams R7

He^{2+} ions
Single and double charge transfer of He^{2+} ions with molecules at near-thermal energies 193

Heptane ion
Photodissociation breakdown pattern and the internal energy of the *n*-heptane ion generated by charge exchange ionization 133

1,5-Hexadiyne ions
Formation of long-lived benzene ions during charge exchange ionization of 1,5-hexadiyne in an ion cyclotron resonance spectrometer 11
Isomerization of $C_6H_6^{\cdot+}$ ions from 1,3-hexadien-5-yne during charge exchange ionization at low kinetic energy as studied by photodissociation in an ion cyclotron resonance spectrometer 7

Hydride abstraction
On molecular ion formation by hydride abstraction in plasma desorption mass spectrometry 69

Hydrogen bond
Enhanced production of unprotonated hydrogen-bonded cluster ions R1

ICR radius
Harmonic enhancement of a detected ion cyclotron resonance signal by use of segmented detection electrodes 41

Ion detection
Velocity and ion species dependence of the gain of microchannel plates 19

Ionization
Ionization and fragmentation of C_{60} by gas-phase fast atom bombardment using He, Ar and Xe beams R7

Ion formation
On molecular ion formation by hydride abstraction in plasma desorption mass spectrometry 69

Ion source
Calculation of the beam flux distribution from an effusion hole in the ion source of the mass spectrometer 107

Ion velocity dispersion
Influence of fringing fields on the acceptance of a quadrupole mass filter in the separation mode of the intermediate stability region 101

Ion-induced secondary electron emission
Velocity and ion species dependence of the gain of microchannel plates 19

Ionization cross-sections
On the partial ionization cross-sections for CF_4 by use of the pulsed-electron-beam time-of-flight method 97

Ionized 1,3-hexadien-5-yne
Isomerization of $C_6H_6^{\cdot+}$ ions from 1,3-hexadien-5-yne during charge exchange ionization at low kinetic energy as studied by photodissociation in an ion cyclotron resonance spectrometer 7

Iridium
Iridium isotope ratio measurements by negative thermal ionization mass spectrometry and atomic weight of iridium 139

Isomerization
Isomerization of $C_6H_6^{\cdot+}$ ions from 1,3-hexadien-5-yne during charge exchange ionization at low kinetic energy as studied by photodissociation in an ion cyclotron resonance spectrometer 7

Isotope dilution mass spectrometry
CBNM certification of Cd in polyethylene by isotope dilution mass spectrometry 1

Isotope ratio
Iridium isotope ratio measurements by negative thermal ionization mass spectrometry and atomic weight of iridium 139

Isotope ratio measurements
A new method for high precision isotopic measurement of bromine by thermal ionization mass spectrometry 117

Isotopic abundance
The isotopic abundance of antimony 77

Laser desorption/ionization
Initiation of coherent magnetron motion following ion injection into a Fourier transform ion cyclotron resonance trapped ion cell 49
Laser desorption/laser ionization mass spectra of some methylated xanthines and the laser desorption of caffeine and theophylline from thin layer chromatography plates 125

Magnetron motion
Initiation of coherent magnetron motion

following ion injection into a Fourier transform ion cyclotron resonance trapped ion cell 49
Methanol clusters
Enhanced production of unprotonated hydrogen-bonded cluster ions R1
Methyl fluoride ions
Enhanced production of unprotonated hydrogen-bonded cluster ions R1
Methylene transfer
Gas phase substitution reactions by radical cations. Part 2. Reaction of the C–C ring-opened oxirane radical cation with benzonitrile and benzoic acid 59
Microchannel plates
Velocity and ion species dependence of the gain of microchannel plates 19
Molecular beam mass spectrometry
Electron impact fragmentation of gases by molecular beam mass spectrometry. Application to $AsCl_3$ and a $GaCl_3/Ga_2Cl_6$ mixture 243
Molybdenum oxide anions
Reactions of metal oxide anions 225
Multiphoton ionization
Surface induced dissociation for tandem time-of-flight mass spectrometry 233

Negative ion mass spectrometry
A Rydberg-atom ionization source for negative ion mass spectrometry 217
Negative thermal ionization mass spectrometry
Iridium isotope ratio measurements by negative thermal ionization mass spectrometry and atomic weight of iridium 139
3-Nitrobenzyl alcohol
A Rydberg-atom ionization source for negative ion mass spectrometry 217
Nitrogen oxides
Reactions of metal oxide anions 225
o-Nitrophenyl octyl ether
A Rydberg-atom ionization source for negative ion mass spectrometry 217

O_2
Reactions of metal oxide anions 225
Osmiridium
Iridium isotope ratio measurements by negative thermal ionization mass spectrometry and atomic weight of iridium 139
Oxirane
Gas phase substitution reactions by radical cations. Part 2. Reaction of the C–C ring-opened oxirane radical cation with benzonitrile and benzoic acid 59

Peptide mass spectra
Large scale simulation of mass spectra recorded with a quadrupole ion trap mass spectrometer 85
Phase spectrometry
Electron impact fragmentation of gases by molecular beam mass spectrometry. Application of $AsCl_3$ and a $GaCl_3/Ga_2Cl_6$ mixture 243
Photodissociation
Isomerization of $C_6H_6^{\cdot+}$ ions from 1,3-hexadien-5-yne during charge exchange ionization at low kinetic energy as studied by photodissociation in an ion cyclotron resonance spectrometer 7
Photodissociation breakdown
Photodissociation breakdown pattern and the internal energy of the *n*-heptane ion generated by charge exchange ionization 133
Plasma desorption
On molecular ion formation by hydride abstraction in plasma desorption mass spectrometry 69
Polyethylene
CBNM certification of Cd in polyethylene by isotope dilution mass spectrometry 1

Quadrupole ion trap
Large scale simulation of mass spectra recorded with a quadrupole ion trap mass spectrometer 85
Quadrupole mass filter
Influence of fringing fields on the acceptance of a quadrupole mass filter in the separation mode of the intermediate stability region 101

Radial velocity distribution
On molecular ion formation by hydride abstraction in plasma desorption mass spectrometry 69
Radiative stabilization
Formation of long-lived benzene ions during charge exchange ionization of 1,5-hexadiyne in an ion cyclotron resonance spectrometer 11

Reaction mechanisms
Reactions of metal oxide anions 225
Relaxation mechanisms
Harmonic enhancement of a detected ion cyclotron resonance signal by use of segmented detection electrodes 41
Resonant ejection
Large scale simulation of mass spectra recorded with a quadrupole ion trap mass spectrometer 85
Rydberg-atom ionization
A Rydberg-atom ionization source for negative ion mass spectrometry 217

Secondary electron yield
Velocity and ion species dependence of the gain of microchannel plates 19
Selected-ion drift tube
Single and double charge transfer of He^{2+} ions with molecules at near-thermal energies 193
Selected-ion flow tube
Reactions of Fe^- with acids: gas-phase acidity and bond energy of FeH 205
Simulated spectra
Large scale simulation of mass spectra recorded with a quadrupole ion trap mass spectrometer 85
Single charge transfer
Single and double charge transfer of He^{2+} ions with molecules at near-thermal energies 193
Sulfur ions
Crossed-beams measurements of absolute cross sections for electron impact ionization of S^+ 187
Surface induced dissociation
Surface induced dissociation for tandem time-of-flight mass spectrometry 233
Symmetric charge exchange
Photodissociation breakdown pattern and the internal energy of the *n*-heptane ion generated by charge exchange ionization 133
Synthetic isotope mixture
The isotopic composition and atomic weight of titanium 29
Surface ionization mass spectrometry
The isotopic composition and atomic weight of titanium 29

Thermal ionization
A new method for high precision isotopic measurement of bromine by thermal ionization mass spectrometry 117
The isotopic abundance of antimony 77
Thin layer chromatography
Laser desorption/laser ionization mass spectra of some methylated xanthines and the laser desorption of caffeine and theophylline from thin layer chromatography plates 125
Time-of-flight
Laser desorption/laser ionization mass spectra of some methylated xanthines and the laser desorption of caffeine and theophylline from thin layer chromatography plates 125
On the partial ionization cross-sections for CF_4 by use of the pulsed-electron-beam time-of-flight method 97
Surface induced dissociation for tandem time-of-flight mass spectrometry 233
Titanium
The isotopic composition and atomic weight of titanium 29
Transmission
Influence of fringing fields on the acceptance of a quadrupole mass filter in the separation mode of the intermediate stability region 101
Trap design
Harmonic enhancement of a detected ion cyclotron resonance signal by use of segmented detection electrodes 41